

Substitute form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	To Be Assigned 10/806,523
				Filing Date	Concurrently
				First Named Inventor	Nnochiri N. Ekwuribe
				Group Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	9233-64CT

U.S. PATENTS AND PATENT PUBLICATIONS					
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
JER	1	US-6,506,730	B1	Lee et al.	01/14/2003
		US-			
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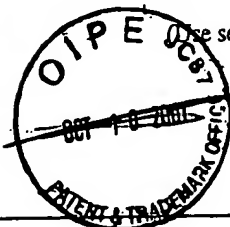
Class/Subclass
514/12

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T
		Office	Number	Kind Code (if known)			

Examiner Signature	Jeffrey E. Russell	Date Considered	June 16, 2005
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF DOCUMENTS CITED BY APPLICANT



(Use several sheets if necessary)

Applicants: Ekwuribe et al.

Filing Date: June 4, 2000

Concurrently

Group

1653

U. S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
JR	1. 4,179,337	12/18/79	Davis et al.	435	181	
JR	2. 5,359,030	10/25/94	Ekwuribe	530	303	
JR	3. 5,405,877	04/11/95	Greenwald et al.	514	772.3	
JR	4. 5,567,422	10/22/96	Greenwald	424	78.3	
JR	5. 5,681,811	10/28/97	Ekwuribe	514	8	

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Document Number	Date	Country	Class	Subclass	Translation Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JR	6.	Banting et al., "Pancreatic Extracts in the Treatment of Diabetes Mellitus," <i>Can. Med. Assoc. J.</i> , 12: 141-146 (1922).
JR	7.	H. Allcock & F. Lampe, "Contemporary Polymer Chemistry," 394-403 (2nd. ed., 1991).
JR	8.	Y. Chen & G. Baker, "Synthesis and Properties of AMA Amphiphiles," <i>J. Org. Chem.</i> , 64: 6870-6873 (1999).
JR	9.	"Pharmaceutical Research: Official Journal of the American Association of Pharmaceutical Scientists," 3(6): 318-326 (1986).
JR	10.	Coudert et al., "A Novel, Unequivocal Synthesis of Polyethylene Glycols," <i>Synthetic Communications</i> , 16(1): 19-26 (1986).
JR	11.	J. Milton Harris, "Laboratory Synthesis of Polyethylene Glycol Derivatives," <i>J. Macromol. Science - Rev. Macromol. Chem. Phys.</i> , C25(3): 325-373 (1985).

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Jeffrey E. Eshel

DATE CONSIDERED

February 11, 2003 / June 16, 2005

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



LIST OF DOCUMENTS CITED BY APPLICANT

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Attorney Docket Number

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Applicants:

Ekwuribe et al.

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Filing Date:

June 4, 2000

Concurrently

Group

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U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
JR	1.	5,349,052	09/20/94	Delgado et al.	530	351	

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
JR	2.	0 511 903 A2	11/04/92	EPO	C08G	65/32	X (Abstract)
JR	3.	WO97/14740	04/24/97	PCT	C08G	65/32	X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JR	4.	International Search Report corresponding to PCT/US02/17575; Date of Mailing: September 25, 2002.					

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Jeffrey E. Russell

DATE CONSIDERED

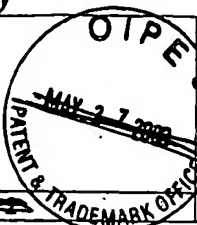
February 11, 2003 / June 16, 2005

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1



Complete if Known

Application Number	09/873,772
Filing Date	June 4, 2001
First Named Inventor	Ekwuribe
Group Art Unit	1654
Examiner Name	Jeffrey E. Russel
Attorney Docket Number	9233.64 CT

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures
		Number	Kind Code (if known)			
JRL	1	4,223,163		Guilloty	09/16/1980	568/618
JRL	2	4,801,575		Pardridge	01/31/1989	514/4
JRL	3	5,099,074		Mueller et al.	03/24/1992	568/617
JRL	4	5,122,614		Zalipsky	06/16/1992	548/520
JRL	5	5,298,410		Phillips et al.	03/29/1994	431/188
JRL	6	5,320,840		Camble et al.	06/14/1994	401/851
JRL	7	5,714,639		Bowman et al.	02/03/1998	568/620
JRL	8	5,428,128		Mensi-Fattohi et al.	06/27/1995	530/302
JRL	9	5,468,478		Saifer et al.	11/21/1995	424/78,27
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JRL	11	5,637,749		Greenwald	06/10/1997	558/6
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JRL	13	5,854,208		Jones et al.	12/29/1998	514/3
JRL	14	6,011,008		Domb et al.	01/04/2000	514/8

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Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures	T
		Office	Number	Kind Code (if known)				
JRL	15	DE	196 32 440 A1		BASF AG	02/19/1998	---	
JRL	16	EP	0 822 218 A2		Glenn A. Miller, Michael W. Jorgenson, Richard Budnik	02/04/1998	---	
JRL	17	JP	01207320 (Abstract Only)		Daicel Chem Ind Ltd.	08/21/1989	---	
JRL	18	PCT	WO 01/12230		Myung-Ok Park, Kang Choon Lee	02/22/2001	---	

OTHER NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T
JRL	19	Francis, G.E., et al., Polyethylene Glycol Modification: Relevance of Improved Methodology to Tumour Targeting, Journal of Drug Targeting, Vol. 3, pp. 321-40 (1996)	
JRL	20	Guzman, Angel, et al., Effects of Fatty Ethers and Stearic Acid of the Gastrointestinal Absorption of Insulin, PRHSJ, Vol. 9, No. 2, pp. 155-159 (August 1990)	

Examiner Signature	Jeffrey E. Russel	Date Considered	July 9 2003 / June 16 2005
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Institute form 1449A/PTO

Complete if Known

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet ~~2~~ of ~~2~~

Application Number ~~09/873,777~~ TO BE ASSIGNED
 Filing Date June 4, 2004 CONCURRENTLY
 First Named Inventor Ekwuribe
 Group Art Unit 1654
 Examiner Name Jeffrey E. Russel
 Attorney Docket Number 9233.64CT

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OTHER NON PATENT LITERATURE DOCUMENTS

JRL	21	Krishnan, B. Radha, et al., <i>Stability and Physical Characteristics of Orally Active Amphiphilic Human Insulin Analog, Methoxy (Polyethylene Glycol) Hexanoyl Human Recombinant Insulin (HIM2)</i> , <i>Proceed. Int'l. Symp. Control. Rel. Bioact. Mater.</i> , Vol. 27 pp. 1038-39 (2000).	
JRL	22	Lindsay, D.G., et al., <i>The Acetylation of Insulin</i> , <i>Biochem J.</i> , Vol. 121, pp. 737-745 (1971)	
JRL	23	Mesiha, M.S., et al., <i>Hypoglycaemic effect of oral insulin preparations containing Brij 35, 52, 58 or 92 and stearic acid</i> , <i>J. Pharm. Pharmacol.</i> , Vol. 33, pp. 733-34 (1981)	
JRL	24	Moghaddam, Amir, <i>Use of polyethylene glycol polymers for bioconjugations and drug development</i> , <i>American Biotechnology Laboratory</i> , pp. 42, 44 (July 2001)	
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JRL	27	Sirokman, Geza, et al., <i>Refolding and proton pumping activity of a polyethylene glycol-bacteriorhodopsin water-soluble conjugate</i> , <i>Protein Science</i> , Vol. 2, pp. 1161-1170 (1993)	
JRL	28	Torchilin, Vladimir P., <i>Immunoliposomes and PEGylated Immunoliposomes: Possible Use for Targeted Delivery of Imaging Agents</i> , <i>Immunomethods</i> , Vol. 4, pp. 244-58 (1994)	
JRL	29	Wei, Jiang, et al., <i>A Poly(Ethylene Glycol) Water-soluble Conjugate of Porin: Refolding to the Native State</i> , <i>Biochemistry</i> , Vol. 34, pp. 6408-6415 (1995)	
JRL	30	Xia, Jiding, et al., <i>Effects of polyoxyethylene chain length distribution on the interfacial properties of polyethylene glycol n-dodecyl ether</i> , <i>Yingyong Huaxue</i> , Vol. 2, No. 4, pp. 59-65 (Abstract Only) (1985)	
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Examiner Signature

Jeffrey E. Russel

Date Considered

July 9, 2003/June 16, 2005

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Substitute form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Application Number: 09/873,797
Filing Date: 06/04/2001
First Named Inventor: Nnochiri N. Ekwuribe
Group Art Unit: 1711
Examiner Name: Duc Truong
Attorney Docket Number: 9233-64CT

Classified If Known: 99873-797-1

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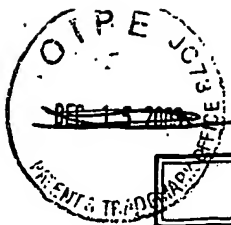
U.S. PATENTS AND PATENT PUBLICATIONS							Class/Subjects
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	
		Number	Kind Code (if known)				
JRL	1	2003/0144468	A1	Ekwuribe et al.	07/31/2003	5A8 / 425	
JRL	2	2003/0087808	A1	Soltero et al.	05/08/2003	514 / 3	
JRL	3	2003/0083232	A1	Soltero et al.	05/01/2003	514 / 3	
JRL	4	2003/0089170	A1	Soltero et al.	04/10/2003	514 / 2	
JRL	5	2003/0050228	A1	Ekwuribe et al.	03/13/2003	514 / 3	
JRL	6	2003/0027995	A1	Ekwuribe et al.	02/08/2003	530 / 399	
JRL	7	2003/0027748	A1	Ekwuribe et al.	02/08/2003	514 / 3	
JRL	8	2003/0004304	A1	Ekwuribe et al.	01/02/2003	528 / 425	
JRL	9	6,323,311	B1	Liu et al.	11/27/2001	530 / 303	
JRL	10	6,191,105		Ekwuribe et al.	02/20/2001	514 / 3	
JRL	11	6,057,292		Cunningham et al.	05/02/2000	514 / 12	
JRL	12	5,597,797		Clark	01/28/1997	514 / 12	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				

OTHER NON PATENT LITERATURE DOCUMENTS				T
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		
JRL	13	Still et al., <i>Methods of Reducing Hypoglycemic Episodes in the Treatment of Diabetes Mellitus</i> , U.S. Serial No. 10/461,199, filed 06/13/2003		
JRL	14	Radhakrishnan et al., <i>Insulin Polypeptide-Oligomer Conjugates, Proinsulin Polypeptide-Oligomer Conjugates and Methods of Synthesizing Same</i> , U.S. Serial No. 10/389,499, filed 03/17/2003		
JRL	15	Soltero et al., <i>Pharmaceutical Compositions of Insulin Drug-Oligomer Conjugates and Methods of Treating Diseases Therewith</i> , U.S. Serial No. 10/382,155, filed 03/05/2003		
JRL	16	Soltero et al., <i>Pharmaceutical Compositions of Drug-Oligomer Conjugates and Methods of Treating Diseases Therewith</i> , U.S. Serial No. 10/382,069, filed 03/05/2003		
JRL	17	Soltero et al., <i>Insulin Polypeptide-Oligomer Conjugates, Proinsulin Polypeptide-Oligomer Conjugates and Methods of Synthesizing Same</i> , U.S. Serial No. 10/382,022, filed 03/05/2003		
JRL	18	Ekwuribe et al., <i>Calcitonin Drug-Oligomer Conjugates, and Uses Thereof</i> , U.S. Serial No. 10/166,355, filed 11/08/2002, including Preliminary Amendment dated 02/28/2003 and Supplemental Preliminary Amendment dated 03/31/2003		
JRL	19	Ekwuribe et al., <i>Mixtures of Drug-Oligomer Conjugates Comprising Polyalkylene Glycol, Uses Thereof, and Methods of Making Same</i> , U.S. Serial No. 09/873,797, filed 06/04/2001		
JRL	20	Ekwuribe et al., <i>Hydrophilic and Lipophilic Balanced Microemulsion Formulations of Free-Form and/or Conjugation-Stabilized Therapeutic Agents Such as Insulin</i> , U.S. Serial No. 09/614,203, filed 07/12/2000		
JRL	21	Hinds et al., <i>Synthesis and Characterization of Poly(ethylene glycol)-Insulin</i> , Bioconjugate Chem., Vol. 11, 2000, pp. 195-201		
JRL	22	Ekwuribe et al., <i>Amphiphilic Prodrugs</i> , U.S. Serial No. 09/474,915, filed 12/31/1999		

Examiner Signature: Jeffrey E. Russel Date Considered: December 30, 2003 / June 16, 2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not modified.



10/806,523

~~Applicant~~~~09/873,777~~**ELECTRONIC INFORMATION DISCLOSURE STATEMENT**

Electronic Version v18

Stylesheet Version v18.0

Title of
Invention**MIXTURES OF CALCITONIN DRUG-OLIGOMER
CONJUGATES COMPRISING POLYALKYLENE GLYCOL,
USES THEREOF, AND METHODS OF MAKING SAME**Application Number: ~~09/873777~~ TO BE ASSIGNED

Confirmation Number: 2316

First Named Applicant: Nnochiri Ekwuribe

Attorney Docket Number: 9233.64CT

Art Unit: 1654

Examiner: Jeffrey E. Russel

Search string: (3256153 or 3868356 or 3919411 or 3950517
or 4003792 or 4044196 or 4087390 or 4093574
or 4100117 or 4229438 or 4253998 or 4277394
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or 4684524 or 4698264 or 4717566 or 4774976
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TECH CENTER 1600/2900**US Patent Documents**

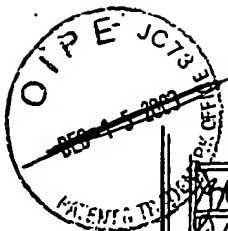
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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RL	2	3868356	1975-02-25	Smyth		530	303
RL	3	3919411	1975-11-11	Glass et al.		424	78.27
RL	4	3950517	1976-04-13	Lindsay et al.		514	3
RL	5	4003792	1977-01-18	Mill et al.		530	303

APP_ID=09873777

Jeffrey E. Russel

December 30, 2003 / ~~Page 1 of 2~~
June 16, 2005



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~~09/873,777~~

6	4044196	1977-08-23	Huper et al.
7	4087390	1978-05-02	Shields
8	4093574	1978-06-06	Shields
9	4100117	1978-07-11	Shields
10	4229438	1980-10-21	Fujino et al.
11	4253998	1981-03-03	Sarantakis
12	4277394	1981-07-07	Fujino et al.
13	4338306	1982-07-06	Kitao et al.
14	4348387	1982-09-07	Brownlee et al.
15	4410547	1983-10-13	Ueno et al.
16	4469681	1984-09-04	Brownlee et al.
17	4554101	1985-11-19	Hopp
18	4579730	1986-04-01	Kidron et al.
19	4585754	1986-04-29	Meisner et al.
20	4662392	1986-05-01	W. S. 2 Hong et al.
21	4684524	1987-08-04	Eckenhoff et al.
22	4698264	1987-10-06	Steinke
23	4717566	1988-01-05	Eckenhoff et al.
24	4774976	1988- 02-07	Sanecke et al.
25	4772471	1988-09-20	Vanlerberghe et al.
26	4797288	1989-01-10	Sharma et al.
27	4839341	1989-06-13	Massey et al.
28	4840799	1989-06-20	App. 4859 Massey et al.
29	4849405	1989-07-18	Ecanow
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31	4935246	1990-06-19	Ahrens
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38	5055304	1991-10-08	Makino et al.
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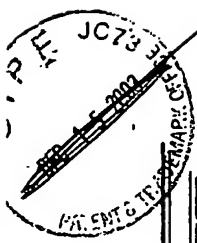
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US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

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Signature

Examiner Name	Date
Jeffrey E. Russel	December 30, 2003 / June 16, 2005



10/806,523

~~09/873,777~~

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of
InventionMIXTURES OF CALCITONIN DRUG-OLIGOMER
CONJUGATES COMPRISING POLYALKYLENE GLYCOL,
USES THEREOF, AND METHODS OF MAKING SAMEApplication Number: ~~09/073777~~ TO BE ASSIGNED

Confirmation Number: 2316

First Named Applicant: Nnochiri Ekwuribe

Attorney Docket Number: 9233.64CT

Art Unit: 1654

Examiner: Jeffrey E. Russel

Search string: (5304473 or 5308889 or 5312808 or 5324775
or 5328955 or 5405621 or 5413791 or 5415872
or 5438040 or 5444041 or 5446091 or 5457066
or 5461031 or 5504188 or 5506203 or 5518998
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XL	3	5312808	1994-05-17	Shorr et al.		514/6	
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XL	5	5328955	1994-07-12	Rhee et al.		525/54.1	
XL	6	5405621	1995-04-11	Sipos		424/490	
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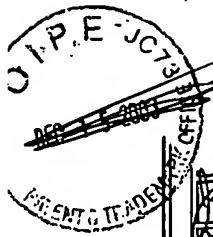
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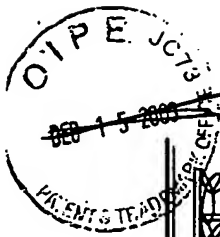
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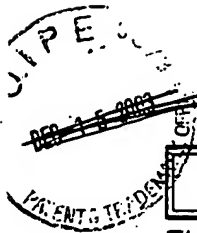
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Jeffrey G. Russel	December 30, 2003 / June 16, 2005

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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of
Invention

MIXTURES OF CALCITONIN DRUG-OLIGOMER
CONJUGATES COMPRISING POLYALKYLENE GLYCOL,
USES THEREOF, AND METHODS OF MAKING SAME

Application Number: ~~09/873,777~~ TO BE ASSIGNED
Confirmation Number: 2316
First Named Applicant: Nnochiri Ekwuribe
Attorney Docket Number: 9233.64
Art Unit: 1654
Examiner: Jeffrey E. Russel
Search string: (5907030 or 5922675 or 5932462 or 5942248
or 5948751 or 5952008 or 5952297 or 5962267
or 5968549 or 5969040 or 5981709 or 5985263
or 6004574 or 6025325 or 6034054 or 6042822
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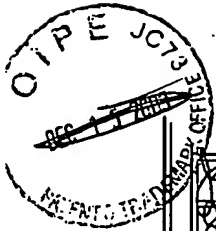
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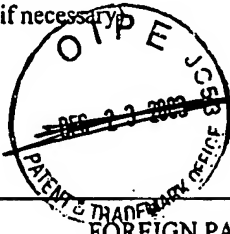
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Examiner Name	Date
Jeffrey E. Russell	December 30, 2003 / June 16, 2005

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Applicants (ny)
Shirley

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	Filing Date June 4, 2001 CONCURRENTLY	Group 1654



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BR	9.	EP 0 597 007	10/16/96	EP	_____	_____	
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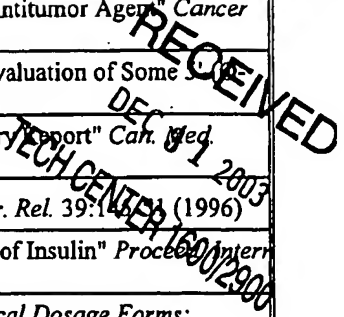
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Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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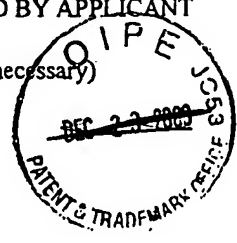
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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number 9233-64CT	Serial No. 09/873,777 TO BE ASSIGNED
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		Applicants: Ekwuribe et al.	
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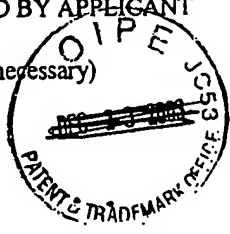
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		Applicants: Ekwuribe et al.	
		Filing Date June 4, 2001 CONCURRENTLY	Group 1654
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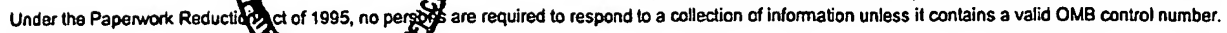
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